MONTANA DEPARTMENT OF ENVIRONMENTAL QUALITY OPERATING PERMIT TECHNICAL REVIEW DOCUMENT

Permitting and Compliance Division 1520 E. Sixth Avenue P.O. Box 200901 Helena, Montana 59620-0901

Barretts Minerals, Inc.
Dillon Talc Processing Facility
East ½ of Section 17, Township 8 South, Range 9 West, in Beaverhead County
8625 MT HWY 91 South
Dillon, MT 59725

The following table summarizes the air quality programs testing, monitoring, and reporting requirements applicable to this facility.

| Facility Compliance Requirements | Yes | No | Comments |
|--|-----|----|---|
| Source Tests Required | X | | Method 5 and Method 9 (as required by the Department) |
| Ambient Monitoring Required | | X | |
| COMS Required | | X | |
| CEMS Required | | X | |
| Schedule of Compliance Required | | X | |
| Annual Compliance Certification and Semiannual Reporting Required | X | | |
| Monthly Reporting Required | | X | |
| Quarterly Reporting Required | | X | |
| Applicable Air Quality Programs | | | |
| ARM Subchapter 7 Preconstruction Permitting | X | | Permit #1995-14 |
| New Source Performance Standards (NSPS) | X | | 40 CFR 60, Subparts OOO and UUU |
| National Emission Standards for Hazardous Air Pollutants (NESHAPS) | | X | Except for 40 CFR 61, Subpart M |
| Maximum Achievable Control Technology (MACT) | | X | |
| Major New Source Review (NSR) | | X | |
| Prevention of Significant Deterioration (PSD) | | X | |
| Risk Management Plan Required (RMP) | | X | |
| Acid Rain Title IV | | X | |
| Compliance Assurance Monitoring (CAM) | | X | |
| State Implementation Plan (SIP) | X | | General SIP |

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SECTION I. GENERAL INFORMATION

A. Purpose

This document establishes the basis for the decisions made regarding the applicable requirements, monitoring plan, and compliance status of emission units affected by the operating permit proposed for this facility. The document is intended for reference during review of the proposed permit by the U.S. Environmental Protection Agency (EPA) and the public. It is also intended to provide background information not included in the operating permit and to document issues that may become important during modifications or renewals of the permit. Conclusions in this document are based on information provided in the original application submitted by Barretts Minerals, Inc. (Barretts) on March 19, 1995, the significant modification application submitted by Barretts on May 20, 2003, additional information submitted on September 22, 2003, the renewal application submitted on July 20, 2004, the significant modification application submitted on January 19, 2005, and additional information submitted on February 3, 2005, the significant modification application submitted on May 10, 2005, and additional information submitted on June 8, 2005.

B. Facility Location

Barretts owns and operates a talc processing facility located in the East ½ of Section 17, Township 8 South, Range 9 West, in Beaverhead County, Montana. Beaverhead County is designated as an Unclassifiable/Attainment area for National Ambient Air Quality Standards (NAAQS) for all criteria pollutants. The facility is located approximately 7 miles South of Dillon, adjacent to Interstate 15. The complex entrance is near the Beaverhead Canyon along the Beaverhead River. The nearest PSD Class I area is the Anaconda Pintler Wilderness, approximately 99 kilometers (km) Northeast of the facility. The immediate area is sparsely populated and is generally used for agriculture.

C. Facility Background Information

Montana Air Quality Permit Background

The Department of Environmental Quality (Department) issued the original Montana Air Quality Permit (MAQP) to Pfizer, Inc. (Pfizer) on June 30, 1970. Permit #179-082470 was issued for the #1 Jet Mill.

The Department issued MAQP #**561-061273** on May 16, 1973, for Hammermills #3 and #4, the Bauer Mill, and the Bagging plant.

MAQP #574-071073 was issued June 16, 1973, for the secondary cone crusher and the #1 Jet Mill.

MAQP #638-101073 was issued October 5, 1973, for the #3 (66") Roller Mill, #2 Aljet Mill, and bagging plant.

MAQP **#690-022674** was issued February 25, 1974, for the rotary kiln.

MAQP #1061 was issued April 28, 1977, for the #1 (50") Roller Mill.

MAQP #1081 was issued July 12, 1977, for the central vacuum system.

MAQP #1090 was issued July 12, 1977, for the #2 (50") Roller Mill.

MAQP #1186 was issued February 22, 1978, for the JS 30 Jet Stream Classifier and related equipment.

MAQP #1493 was issued June 27, 1980, for a #4 Raymond Roller Mill, #3 Jet Mill, and the Packaging equipment. This equipment was never installed.

MAQP #1576 was issued April 20, 1981, for a Jet Mill Nuisance Dust Collector. This equipment was never installed.

Permit #1583 was issued April 22, 1981. This permit was an operating permit to cover the following permits: MAQP #1576; MAQP #1186; MAQP #1061; MAQP #1081; MAQP #574-071073; MAQP #561-061273; MAQP #638-101073; and MAQP #1090.

MAQP #1618 was issued August 18, 1981, for the #1 Aljet Mill.

MAQP #1995 was issued February 15, 1985, for the talc densifier.

The Large Bag Filling system was installed on January 8, 1986. No permit was issued for this construction.

MAQP #1995A was issued May 8, 1990, for the beneficiation plant. MAQP #1995A replaced all previously issued permits.

MAQP #1995-02 was issued June 3, 1992, for the addition of the JS 80 Classifier, a Classifier Feed Bin, Pack Bin, packer, and related equipment. This equipment was added to the plant to allow the company to market a new product. MAQP #1995-02 replaced MAQP #1995A.

MAQP #1995-03 was issued December 7, 1992, for a Semi-bulk packaging system. This permit also changed the name on the MAQP from Pfizer to Barretts, as requested by the company. MAQP #1995-03 replaced MAQP #1995-02.

MAQP #1995-04 was issued November 18, 1993, for the installation and operation of Silo #7, Silo #8, Silo #9, Silo #10, the Bulk Loadout System, HiRoller Enclosed Belt conveyor, and Packer (PKR33103). All these sources, except the Bulk Loadout system, are subject to New Source Performance Standards (NSPS) 40 CFR Part 60, Subpart OOO, requirements. Silo #7, Silo #8, and the Bulk Loadout System were installed at the plant in 1990 without a permit. Since this was discovered, Barretts applied to have the equipment added to the permit. Silo #9 and Silo #10 were installed in May of 1994. The HiRoller Enclosed Belt conveyor was installed to replace the current screw conveyors used to feed the beneficiation plant. The Packer (PKR33103) was planned to increase the bag accuracy by increasing the fill time and was added to the existing packout area. The conveyor and packer were controlled by existing baghouses.

The permit also included some clarifications and the addition of Barretts' numbering system for identifying equipment. The numbers were incorporated into the permit. The Department uses the numbers, along with the descriptions of equipment, in communications concerning the facility. The descriptions and numbers are also used for conducting emission inventories and tracking exceedances.

The clarifications associated with the permit were the more detailed identification of which sources at the plant (to the best of the Department's knowledge) are subject to NSPS requirements. The two NSPS subparts that have been identified as affecting this facility are 40 CFR Part 60, Subpart OOO, and 40 CFR Part 60, Subpart UUU. MAQP #1995-04 replaced MAQP #1995-03.

MAQP #1995-05 was issued January 29, 1995, for the installation and operation of the following equipment: Coated Talc #1 Feed Bin; Coated Talc #2 Feed Bin; K-tron Feed Bin; Coated Talc Recycle System; Coated Talc #1 Product Silo; Coated Talc #2 Product Silo; Coated Talc Small Bag Packer; Coated Talc Semi-Bulk Packer; ACM Mill; and the associated control equipment. With the addition of this equipment, coated talc production increased from 1,000 pounds per hour (lb/hr) to 4,000 lb/hr.

The ACM Mill allowed the facility to increase the production and sizing capabilities of milled talc. The addition of the ACM Mill also allowed Barretts to change the use of the existing mills to allow for a better flow of sized materials. MAQP #1995-05 replaced MAQP #1995-04.

MAQP #1995-06 was issued December 17, 1995, for the installation and operation of a talc pelletizer system including a dryer (natural gas-fired, vibratory), loadout conveyor and loadout system, and the associated control equipment. Two existing bins, which had not previously been permitted, were also included (Compactor Classifier Bin and Compactor Jet Mill Feed Bin). As part of this permit action, the requirement for daily opacity observations was reduced to weekly opacity observations. MAQP #1995-06 replaced MAQP #1995-05.

MAQP #1995-07 was issued April 29, 1996, for the relocation of semi-bulk packaging equipment and the addition of the #1 and #2 Semi-bulk Feed Bins and collectors. MAQP #1995-07 replaced MAQP #1995-06.

On July 24, 1999, Barretts was issued MAQP #1995-08. Barretts requested an alternative to the required weekly visible emission observations and the delta pressure data from baghouse sources. The modification required regular inspection and preventive maintenance similar to what will be required at the facility through the Title V permit. In addition, the equipment list was updated with the correct source terminology.

The calciner was removed from the list of equipment requiring a baghouse (Section II.A.3 of Permit #1995-07) because the Calciner was incorrectly incorporated into Section II.A.3 in Permit #1995-04.

The beneficiation dryer's particulate limit and opacity limitation listed in Section II.B.5 of Permit #1995-07 were corrected. The limitations were incorrectly stated in Permit #1995-07. The corrected values were incorporated into Section II.B.8 of the permit.

The new silo and the new baghouse that were constructed according to the provisions of the Administrative Rules of Montana (ARM) 17.8.705(1)(r) were incorporated into the equipment list in the permit analysis. The project was completed to improve the Roller Mill rejects collection and recycling system (Throw-puts alley). The existing DC032407 Mikro-Pulsaire Model 16S-8-20 baghouse was replaced with a Mikro-Pulsaire Model 36S-8-20 baghouse.

Further, the testing requirements and the rule references were updated. Permit #1995-08 replaced Permit #1995-07.

On October 18, 2000, Barretts was issued MAQP #1995-09, for the addition of a 30-ton storage silo (CPS Storage Silo) and two associated baghouses (CPS Silo Baghouse and CPS Vacuum Packer Baghouse) to the existing centralized packaging system. The CPS Silo Baghouse controls emissions resulting from material transfer to the silo and the CPS Silo Reclaim Baghouse captures emissions from the packaging reclaim system. Permit #1995-09 replaced Permit #1995-08.

On November 6, 2000, the Department received a letter, from Barretts, requesting that MAQP #1995-09 be modified so that the equipment identification nomenclature would match the nomenclature in Barretts Title V operating permit.

In addition, on March 23, 2001, the Department received a request for the installation and operation of a dust collector on top of silo #15. The baghouse was to be operated as process equipment utilized for product reclaim during silo loading operations. Because potential emissions from the baghouse were less than the de minimis threshold of 15 tons per year, the change was a de minimis change as defined in ARM 17.8.705(1)(r).

Further, on April 5, 2001, the Department received a letter requesting changes in the emission testing requirements for certain equipment at the plant. MAQP #1995-09 requires that several pieces of near identical equipment be tested on the same frequency and schedule. Barretts proposed that these units be tested on an alternating schedule pending any significant affected equipment or process changes.

On July 6, 2001, Barretts was issued MAQP #1995-10, for the installation and operation of the dust collector baghouse on top of silo #15. The baghouse was added to the MAQP according to the provisions of ARM 17.8.705(1)(r). In addition, the equipment identification nomenclature was updated to match the nomenclature used in Barretts Title V Operating Permit #1995-00. However, Barretts' request to modify the testing schedules of several pieces of equipment was not incorporated into MAQP #1995-10 because all of the testing requirements in Section II.C of the MAQP include a specific schedule and the statement "or another testing schedule as may be approved by the Department". The Department determined that any testing schedule change requests would be evaluated on a case-by-case basis. Permit #1995-10 replaced Permit #1995-09.

On May 20, 2003, the Department received a request from Bison Engineering, Inc. (Bison), on behalf of Barretts, requesting an administrative amendment to MAQP #1995-10. Specifically, Barretts requested the following changes to MAQP #1995-10:

- Update the emitting unit descriptions and/or titles;
- Remove decommissioned equipment from the permit;
- Add equipment to the permit that was incorporated according to the provisions of ARM 17.8.745(1);
- Separate multiple emitting units that are referenced as one emitting unit;
- Combine multiple emitting units that vent through the same baghouse (process equipment) into one single emitting unit;
- Revise the testing schedules of controlled point sources; and
- Add a new Jet Mill (#4 Jet Mill) to the facility according the provisions of ARM 17.8.745.

This permit action incorporated the changes requested by Barretts. In addition, the conditions requiring initial source tests (conditions II.C.1 through II.C.9) were removed from the permit because Barretts completed all of the initial source tests, as appropriate. MAQP #1995-11 replaced MAQP #1995-10.

On February 6, 2004, the Department received a de minimis notification letter from Bison Engineering, Inc. (Bison), on behalf of Barretts. Barretts notified the Department that they would be replacing the existing fan in the baghouse (DC032407) for the Roller Mill Rejects (Throwouts) Silo (EU082). The change increased the airflow capacity of the baghouse to 2,973 actual cubic feet per minute (acfm), which represented a 1.404 ton per year increase in the facility's PTE. The change was accomplished according to the provisions of ARM 17.8.745 and the emission inventory contained in the permit analysis was adjusted to account for the change in the facility's PTE. On May 21, 2004, MAQP #1995-12 replaced MAQP #1995-11.

On June 4, 2004, the Department received a de minimis notification letter from Bison, on behalf of Barretts. Barretts notified the Department that they would be replacing the existing baghouse (DC032612) for the #1 Jet Mill and #4 Jet Mill (EU 037) with a smaller baghouse (DC032613). The new baghouse is designed to achieve a nominal air flow rate of 5,000 dscfm and a maximum PM and PM_{10} emission rate of 0.020 gr/dscf. The new baghouse had the PTE PM and PM_{10} at a rate of 3.754 tons per year.

In addition, Barretts notified the Department of the addition of a new Silo (Silo #16, (EU 087)) and associated baghouse (DC032516) to be installed at the facility. The baghouse is designed to achieve a nominal air flow rate of 3,200 dscfm and a maximum PM and PM_{10} emission rate of 0.020 gr/dscf. The new baghouse had the PTE PM and PM_{10} at a rate of 2.405 tons per year.

Further, Barretts requested that the Department remove the #1 Jet Mill Pack Bin (lift fan) (EU 038) from the permit because the equipment has been removed from operations. The permit action incorporated Barretts' requests into the permit according to the provisions of ARM 17.8.745. Furthermore, as referenced in the Title V Renewal application submitted on July 20, 2004, minor errors in the emission inventory were corrected. On August 26, 2004, MAQP #1995-13 replaced MAQP #1995-12.

On January 13, 2005, the Department received a de minimis notification letter from Barretts. Barretts notified the Department of the addition of a new talc mill (ACM #2 Mill) and associated fabric filter baghouse (DCO32522). The baghouse is designed to achieve a nominal air flow rate of 12,000 acfm (8,845 dscfm) and a maximum PM and PM $_{10}$ emission rate of 0.020 gr/dscf. The baghouse had a PTE PM and PM $_{10}$ of 6.64 tons per year.

In addition, Barretts notified the Department of a modification of the Roller Mill Rejects (Throwouts) Silo (EU 082) baghouse (DCO32407). The modification consists of increasing the nominal airflow rate from 2307 acfm (1790 dscfm) to 2900 ACFM (2250 dscfm). The maximum PM and PM $_{10}$ emission rate of the baghouse will remain 0.020 gr/dscf. The modified baghouse had a PTE PM and PM $_{10}$ of 1.689 tons per year.

Further, Barretts notified the Department of the addition of a new vacuum system (ACM surface vacuum). Barretts reported a PTE of 0.00 tons per year for the vacuum system because it would vent inside EU 082. The current permit action incorporated Barretts' requests into the permit according to the provisions of ARM 17.8.745(1). In addition, conditions were added to the permit according to the provisions of ARM 17.8.745(2) that required the ACM #2 Mill be vented to a baghouse and required the ACM surface vacuum be vented inside EU082. Furthermore, Standards of Performance for New Stationary Sources (NSPS) conditions were applied to the ACM #2 Mill. MAQP #1995-14 replaced MAQP #1995-13.

Title V Operating Permit Background

On March 29, 1995, the Department received an operating permit application for the Barretts talc processing facility. The permit application was deemed administratively complete on March 30, 1995; and the permit application was deemed technically complete on April 30, 1995. Additional submittals regarding the permit application were submitted on March 9, 1999. Permit **OP1995-00** became final and effective on January 12, 2000.

On May 20, 2003, the Department received a significant modification application from Bison Engineering, Inc. (Bison), on behalf of Barretts, requesting several revisions to Title V Operating Permit OP1995-00. Specifically, Barretts requested the following changes:

- Update the emitting unit descriptions and/or titles;
- Remove decommissioned equipment from the permit;
- Add equipment to the permit that has been incorporated into MAQP 1995-10, but not yet included in the Title V permit;
- Separate multiple emitting units that are referenced as one emitting unit;
- Combine multiple emitting units that vent through the same baghouse (process equipment) into one single emitting unit;
- Revise the testing schedules of controlled point sources; and

• Add a new Jet Mill (#4 Jet Mill) to the Title V permit that was incorporated into MAQP #1995-11 according the provisions of ARM 17.8.745.

On July 16, 2004, Title V Permit **OP1995-01** became final and effective and replaced Title V Permit OP1995-00.

On June 4, 2004, the Department received a minor modification application (de minmis change notification letter) to incorporate the changes requested by Barretts that are noted in the MAQP Background Section (see MAQP #1995-13). Prior to the Department determining if the changes would be considered a minor modification, Barretts submitted their renewal application on July 20, 2004. Therefore, the Department decided to incorporate the changes as part of the Title V Permit Renewal. In addition, the centralized reclaim (EU044) was not previously included in the permit; therefore, the Department added EU044 to Section H of the permit (Particulate Sources – NSPS with Baghouses) because the Department believes that EU044 is an NSPS affected facility. On March 18, 2005, Title V Permit **OP1995-02** replaced Title V Permit **OP1995-01**.

On January 13, 2005, the Department received a minor modification application (de minimis change notification letter) to incorporate the changes requested by Barretts that are noted in the MAQP Background Section (see MAQP #1995-14). On January 21, 2005, the Department notified Barretts that the proposed changes could not be accomplished through a minor modification. On February 3, 2005, Barretts submitted the additional information that the Department requested to proceed with issuing the significant modification. Title V Permit **OP1995-03** replaced Title V Permit **OP1995-02**.

D. Current Permit Action

On May 10, 2005, the Department received a minor modification application (de minimis change notification letter) to incorporate changes requested by Barretts. Barretts requested to add a heat sterilization system to treat talc for specialty markets. On May 20, 2005, the Department notified Barretts that the proposed changes could not be accomplished through a minor modification. On June 8, 2005, Barretts submitted the additional information that the Department requested to proceed with issuing the significant modification. Title V Permit **OP1995-04** replaces Title V Permit **OP1995-03**.

E. Taking and Damaging Analysis

HB 311, the Montana Private Property Assessment Act, requires analysis of every proposed state agency administrative rule, policy, permit condition or permit denial, pertaining to an environmental matter, to determine whether the state action constitutes a taking or damaging of private real property that requires compensation under the Montana or U.S. Constitution. As part of issuing an operating permit, the Department is required to complete a Taking and Damaging Checklist. As required by 2-10-101 through 105, MCA, the Department has conducted a private property taking and damaging assessment and has determined that there are no taking or damaging implications. The checklist was completed on March 2, 2006.

F. Compliance Designation

The Barretts talc processing facility was last inspected on November 23, 2004. During the inspection, the facility was in compliance with the most current version of both applicable air quality permits (Montana Air Quality Permit #1995-13 and Title V Operating Permit OP1995-03). The Department completed a full compliance evaluation as part of completing the November 23, 2004 inspection report.

SECTION II. SUMMARY OF EMISSION UNITS

A. Facility Process Description

Barretts operates a talc and chlorite production and processing facility located south of Dillon, Montana. Once the source receives the ore, the ore is crushed, washed, and stockpiled. The material is then transferred into the facility where it is milled to obtain different size distributions for different products. A portion of the product is coated to customer specifications. Approximately 80% of the product is bagged and the remaining is shipped in bulk. The mill ships approximately 65% of the product by truck and 35% by railcar.

B. Emission Units and Pollution Control Device Identification

| Emission Unit ID | Description | Pollution Control Device/Practice |
|---------------------|--|--------------------------------------|
| EU 001 | Boiler | None |
| EU 002 | #1 Roller Mill | Baghouse |
| EU 003 | #2 Roller Mill | Baghouse |
| EU 004 | #3 Roller Mill | Baghouse |
| EU 005 | #1 Roller Mill-Nuisance | Baghouse |
| EU 006 | #2 Roller Mill-Nuisance | Baghouse |
| EU 007 | #1 ACM Feed Bin | Baghouse |
| EU 008 | #1 Jet Mill Crude Bin | Baghouse |
| EU 009 | #2 Jet Mill Crude Bin | Baghouse |
| EU 010 | Beneficiation Crude Silos, Bucket Elevator, and Nuisance | Baghouse |
| EU 012 | Pellet Nuisance-East | Baghouse |
| EU 013 | Pellet Nuisance-West | Baghouse |
| EU 014 | #3 Jet Stream Classifier | Baghouse |
| EU 015 | #4 Jet Stream Classifier Rotor | Baghouse |
| EU 016 | #4 Jet Stream Classifier Feed Bin | Baghouse |
| | Bulk Loadout – Spout #1 | |
| EU 017 | Bulk Loadout – Spout #2 | Baghouse |
| EII 010 | Bulk Loadout – Spout #3 | D 1 |
| EU 018 | #3 Roller Mill Crude Bins | Baghouse |
| EU 020 | Packout Packers, East and West | Baghouse |
| EU 022 | Pump Stations | Baghouse |
| EU 024 | Silo #1 Silo #2 | Baghouse |
| EU 025 | | Baghouse |
| EU 026 EU 027 | Silo #3 Silo #4 | Baghouse |
| EU 027 EU 028 | Silo #4 Silo #5 | Baghouse Baghouse |
| EU 028 EU 029 | Silo #5 Silo #6 | Baghouse |
| EU 029 EU 030 | Silo #6 Silo #7 | Baghouse |
| EU 030 | Silo #7 Silo #8 | Baghouse |
| EU 031 EU 032 | Wash Plant | Baghouse |
| EU 032 EU 034 | #2 Jet Mill Pack Bins | Baghouse |
| EU 034 | #2 Jet Mill | Baghouse |
| EU 033 | #3 Jet Mill | Baghouse |
| EU 030 | #1 Jet Mill and #4 Jet Mill | Baghouse |
| EU 037 | #3 and #4 Hammermills | Baghouse |
| EU 039 EU 041 | Packout Reclaim | Baghouse |
| EU 041 EU 042 | #1 and #2 Jet Stream Classifiers | Baghouse |
| EU 042 EU 043 | #1 and #2 Jet Stream Classifiers #1 and #2 Hammermill | Baghouse |
| EU 043 | Centralized Reclaim | Baghouse |
| EU 044 | Dry Mill Input (Cone Crusher) | Baghouse |
| EU 043 EU 047 | Calciner | None |
| EU 048 | Beneficiation Dryer | Baghouse |
| EU 050 | Jet Mill Reclaim System | Baghouse |
| EU 052 | Silo #9 | Baghouse |
| EU 052 | Silo #7 | Baghouse |
| EO 033 | SHO π10 | Dagnouse |

| EU 054 | #1 ACM Mill | Baghouse |
|--------------------|---|--|
| EU 055 | East Coated Talc Feed Bin Silo #11 | Baghouse |
| EU 056 | West Coated Talc Feed Bin – Silo #12 | Baghouse |
| EU 057 | Coated Talc Small Bag Packer Bin | Baghouse |
| EU 058 | Coated Talc Semi-bulk Packer Bin | Baghouse |
| EU 059 | Pelletizer Dryer System | Baghouse |
| EU 060 | Pellet Loadout Conveyor | Baghouse |
| EU 061 | Pelletizer South Feed Bin | Baghouse |
| EU 062 | Pelletizer North Feed Bin | Baghouse |
| EU 063 | #1 Semi-bulk Feed Bin | Baghouse |
| EU 064 | #2 Semi-bulk Feed Bin | Baghouse |
| EU 065 | K-tron Feed Bin | Baghouse |
| EU066 | Coated Talc Recycle Bin | Baghouse |
| EU 067 | Wash Plant Jaw Crusher | Best Operating Practices |
| EU 068 | Bulk Crude Conveyor | Best Operating Practices |
| EU 069 | Ore Stockpile | Best Operating Practices |
| EU 070 | Rejects Stockpile | Best Operating Practices |
| EU 071 | Fines Stockpile | Best Operating Practices |
| EU 072 | Auxiliary Equipment | Water/Chemical dust suppressant |
| EU 073 | Haul and Access Roads | Water/Chemical dust suppressant |
| EU 074 | Disturbed Acres | Water/Chemical dust suppressant |
| EU 075 | Tailings Handling | Best Operating Practices |
| EU 076 | Conveyor Transfer Points | Best Operating Practices |
| EU 077 | West Coated Talc Product Bin | Baghouse |
| EU 078 | East Coated Talc Product Bin | Baghouse |
| EU 079 | ACM Blending Crude Bin | Baghouse |
| EU 080 | Beneficiation Product Silos | Baghouse |
| EU 082 | Roller Mill Rejects (Throwouts) Silo | Baghouse |
| EU 083 | CPS Vacuum Packer | Baghouse |
| EU 084 | CPS Silo | Baghouse |
| EU 085 | Silo #15 | Baghouse |
| EU 086 | Centralized Vacuum System | Baghouse |
| EU 087 | Silo #16 | Baghouse |
| EU 088 | ACM #2 Mill | Baghouse |
| EU 089 | ACM Surface Vacuum | Vents Inside EU 082 |
| EU 090 | Sterilizer System Natural Gas Heater | None |
| EU 091 | Sterilizer System Feed Bin | Baghouse |
| Emitting units 12. | 13, 20, 21, 43, and 44 have individual baghouses but are vent | ed to single shared stacks. Emitting units 10, 11, 1 |

Emitting units 12, 13, 20, 21, 43, and 44 have individual baghouses but are vented to single shared stacks. Emitting units 10, 11, 18, 19, 22, 23, 39, and 40 have shared baghouses and are vented to single stacks. Because some of these units are subject to the 7% opacity limitation the stack must meet this requirement.

C. Categorically Insignificant Sources/Activities

The miscellaneous emissions from Barretts include emissions from the Supersucker Collection System, Fire Control Equipment, HVAC Maintenance, Janitorial Activities, Maintenance, Natural Gas Unit/Domestic Water Heater, Office/Laboratory Activities, and Pollution Control Equipment Maintenance. These units are insignificant because they emit less than 5 tons per year of any regulated pollutant.

SECTION III. PERMIT CONDITIONS

A. Emission Limits and Standards

Barretts shall comply with the general applicable requirements as well as some specific requirements. Barretts shall comply with the 20% and 40% opacity limitations, which is dependent on the year of installation. Barretts is also required to comply with the sulfur in fuel limitation of 50 grains per dry standard cubic feet (gr/dscf). The #1 Aljet Mill and the #1 Jet Mill Crude Bin shall be limited to 0.02 gr/dscf of particulate emissions. The #3 Jet Mill shall not exceed 9.3 lb/hr of particulate emissions. Barretts also has several sources listed in the permit that are subject to the requirements of 40 CFR 60, Subpart OOO and Subpart UUU.

B. Monitoring Requirements

ARM 17.8.1212(1) requires that all monitoring and analysis procedures or test methods required under applicable requirements are contained in operating permits. In addition, when the applicable requirement does not require periodic testing or monitoring, periodic monitoring must be prescribed that is sufficient to yield reliable data from the relevant time period that is representative of the source's compliance with the permit.

The requirements for testing, monitoring, recordkeeping, reporting, and compliance certification sufficient to assure compliance does not require the permit to impose the same level of rigor for all emission units. Furthermore, it does not require extensive testing or monitoring to assure compliance with the applicable requirements for emission units that do not have significant potential to violate emission limitations or other requirements under normal operating conditions. When compliance with the underlying applicable requirement for an insignificant emissions unit is not threatened by lack of regular monitoring and when periodic testing or monitoring is not otherwise required by the applicable requirement, the status quo (i.e., no monitoring) will meet the requirements of ARM 17.8.1212(1). Therefore, the permit does not include monitoring for insignificant emission units.

The permit includes periodic monitoring or recordkeeping for each applicable requirement. The information obtained from the monitoring and recordkeeping will be used by the permittee to periodically certify compliance with the emission limits and standards. However, the Department may require testing to determine compliance with the emission limits and standards.

C. Test Methods and Procedures

The operating permit may not require testing for all sources if routine monitoring is used to determine compliance, but the Department has the authority to require testing if deemed necessary to determine compliance with an emission limit or standard. In addition, the permittee may elect to voluntarily conduct compliance testing to confirm its compliance status.

D. Recordkeeping Requirements

The recordkeeping provisions shall be sufficient to meet the provisions of the monitoring requirements and shall include, as necessary, the installation, use and maintenance of the monitoring equipment or methods as well as the following information: the date the analyses were performed; the place and time of the sampling; the company or entity performing the sampling; the analytical techniques or methods used; the results of such analyses; and the operating conditions at the time of the analyses. Retention of the records of all required monitoring data and support information shall be for a period of at least 5 years from the date of measurement. Support information includes: all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the operating permit. Barretts is required to keep all records listed in the operating permit as a permanent business record for at least 5 years following the date of the generation of the record.

E. Reporting Requirements

Reporting requirements are included in the permit for each emissions unit and Section V of the operating permit "General Conditions" explains the reporting requirements. However, the permittee is required to submit semi-annual and annual monitoring reports to the Department and to annually certify compliance with the applicable requirements contained in the permit. The reports must include a list of all emission limit and monitoring deviations, the reason for any deviation, and the corrective action taken as a result of any deviation.

F. Public Notice

In accordance with ARM 17.8.132, a public notice was published in *The Dillon Tribune* newspaper on or before April 13, 2005. The Department provided a 30-day public comment period on the draft operating permit from April 13, 2005, to May 13, 2005. ARM 17.8.1232 requires the Department to keep a record of both comments and issues raised during the public participation process. The Department did not receive any comments on the draft permit.

SECTION IV. NON-APPLICABLE REQUIREMENT ANALYSIS

Barretts did not submit a non-applicable requirement analysis as part of Permit Application OP1995-04.

SECTION V. FUTURE PERMIT CONSIDERATIONS

A. MACT Standards

As of the issuance date of Permit OP1995-03, the Department is unaware of any future MACT Standards that may be promulgated that will affect this facility.

B. NESHAP Standards

As of the issuance date of Permit OP1995-03, the Department is unaware of any future NESHAP Standards that may be promulgated that will affect this facility.

C. NSPS Standards

As of the issuance date of Permit OP1995-03, the Department is unaware of any future NSPS Standards that may be promulgated that will affect this facility. The facility is currently subject to 40 CFR 60, Subpart OOO - Nonmetallic Mineral Processing Plants and 40 CFR 60, Subpart UUU - Calciners and Dryers in Mineral Industries.

D. Risk Management Plan

As of the issuance date of Permit OP1995-03, this facility does not exceed the minimum threshold quantities for any regulated substance listed in 40 CFR 68.115 for any facility process. Consequently, this facility is not required to submit a Risk Management Plan.

If a facility has more than a threshold quantity of a regulated substance in a process, the facility must comply with 40 CFR 68 requirements no later than June 21, 1999; three years after the date on which a regulated substance is first listed under 40 CFR 68.130; or the date on which a regulated substance is first present in more than a threshold quantity in a process, whichever is later.